

PROCEEDINGS OF THE COMMON COUNCIL
IN REGULAR SESSION,
TUESDAY, NOVEMBER 9, 1971

CITY OF FORT WAYNE, INDIANA
Journal of the Proceedings
of the Common Council

The Common Council of the City of Fort Wayne met in the Council Chamber Tuesday evening, November 9, A.D., 1971 in Regular Session. President Phil A. Steigerwald in the chair, and Fuad G. Bonahoom Clerk, at the desk, present the following members 9 viz:

Adams ✓ Dunifon ✓ Fay ✓ Geake ✓ Nuckols ✓
Rousseau ✓ Schmidt ✓ Steigerwald ✓ Tipton ✓

Absent 0 viz: Councilman _____

The minutes of the last regular October 26, 1971 session having been delivered to the Council, were, on motion, approved as published.



HAROLD S. ZEIS
Mayor

COMMUNICATION FROM THE MAYOR

To the Common Council
Fort Wayne, Indiana

Gentlemen and Mrs. Fay:

Today, October 27, 1971, I have approved the following ordinances passed by the Common Council at its regular meeting on October 26, 1971:

(Bill No. Z-71-07-12)
ZONING MAP ORDINANCE NO. Z-156-71

AN ORDINANCE amending the City of Fort Wayne Zoning Map No. C-12.

(Bill No. G-71-09-26)
GENERAL ORDINANCE NO. G-124-71

AN ORDINANCE amending Section 110 of Article XIII of Chapter 31 of the Municipal Code of the City of Fort Wayne, Indiana, 1946, as amended by General Ordinance No. 2726, adopted December 22, 1953.

(Bill No. A-71-10-01)
APPROPRIATION ORDINANCE NO. A-133-71

AN EMERGENCY APPROPRIATION providing an additional appropriation out of the Aviation Fund for the Board of Aviation Commissioners for insurance premiums.

(Bill No. S-71-10-03)
SPECIAL ORDINANCE NO. S-755-71

AN ORDINANCE approving the purchase of real estate in connection with the widening of North Clinton Street, Project ST-414 "C".

(Bill No. S-71-10-05)
SPECIAL ORDINANCE NO. S-756-71

AN ORDINANCE approving Bid Document Ref. No. 418 with various Contractors for Emergency Snow Removal Equipment Rental.

(Bill No. S-71-10-06)
SPECIAL ORDINANCE NO. S-757-71

AN ORDINANCE approving contract with WESTINGHOUSE ELECTRIC SUPPLY CO. for 60 American Concrete Poles for the Light Construction Department.



(Bill No. G-71-10-12)
GENERAL ORDINANCE NO. G-125-71

AN ORDINANCE amending General Ordinance No. G-97 by authorizing the vacation
of public alleys between Bowser and Holton Avenues and between Main and
Columbia Streets.

(Bill No. R-71-10-26)
RESOLUTION NO. R-127-71

RESOLUTION authorizing payment for repairs to ventilator shaft cover between
the City-County Building and the Court House.

(Bill No. R-71-10-27)
RESOLUTION NO. R-128-71

RESOLUTION authorizing payment for repairs to City-owned vehicle.

Respectfully submitted,


Harold S. Zeis
Mayor.

MADE A MATTER OF RECORD
DATE 11-9-71 FUAD G. BONAHOOM, CITY CLERK



BOARD OF PUBLIC SAFETY

City of Fort Wayne

COMMUNICATION FROM BOARD OF PUBLIC SAFETY

October 28, 1971

President of the Common Council
City of Fort Wayne, Indiana

Dear Sir:

Attached herewith is an authenticated copy of the Board of Public Safety Regulatory Resolution Number 56-71/E.

For the purpose of enforcement, please make this a communication and the attached Regulatory Resolution a matter of record and incorporate same into the minutes of the next Common Council Meeting.

Respectfully submitted,

Melvin H. Heckman, Chairman
BOARD OF PUBLIC SAFETY

By: *George W. Bormuth*
George W. Bormuth, Exec. Sec'y.



MADE A MATTER OF RECORD

DATE 11-9-71 FAUD G. BONAHOOM, CITY CLERK

RETURN CERTIFICATE
(Regulatory Resolution No. 56-71 / E)

I hereby certify that I did this 28th day of
October, 1971 deliver to each, the City Traffic
Engineer, the Chief of Police, the City Attorney, The City
Clerk and the President of the Common Council of the City
of Fort Wayne, Indiana, respectively, a copy of the within
Regulatory Resolution No. 56-71 / E of the Board of Public
Safety of the City of Fort Wayne, duly certified by me as
Secretary of said Board, in accordance with the provisions
of Section 20 (a) of Chapter 31; Municipal Code of the City
of Fort Wayne, Indiana 1946, as amended by General Ordin-
nance G-55, adopted FEB. 14, 1961.


G.W. Bormenter
ms

EXECUTIVE SECRETARY

REGULATORY RESOLUTION NO.56-71/E

(Adopted October 27, 1971)

WHEREAS, Section 20(a) (3), Chapter 31, Municipal Code of the City of Fort Wayne, Indiana, as amended by General Ordinance No.G -55 adopted FEB. 14 1961 authorizes the Board of Public Safety to make experimental regulations to cover special conditions; and,

WHEREAS, a special condition has arisen justifying the Experimental Regulation hereinafter ordered, with regard to one way street, stop intersection,
no parking, and a deletion

; and,

WHEREAS, the City Traffic : Engineer has, by written memorandun dated October 26, 19 71, submitted to this Board his advice with regard to the regulation hereinafter adopted, which written memorandum is on file in the office of this Board;

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF PUBLIC SAFETY OF THE CITY OF FORT WAYNE, INDIANA:

That, pursuant to the authority granted to this Board by Section 20 (a) (3) of Chapter 31 of the Municipal Code of the City of Fort Wayne, Indiana 1946, as amended by General Ordinance No G -55 adopted FEB. 14. 1961. to make experimental regulations to cover special conditions, it is hereby ordered, effective October 27,

19 71, and for a period of sixty (60) days thereafter, and when signs are erected pursuant hereto giving notice thereof, that THE FOLLOWING BE ESTABLISHED:

A. One Way Street:

1. Dewald St. - westbound - from Lafayette St. to Clinton St.

DELETE

1. Lafayette St. - northbound - from Dewald St. to Douglas St.

B. Stop Intersection

1. Clinton St. - STOP - at Dewald St.

C. No Parking

1. Dewald St. - both sides - from Lafayette St. to Clinton St.

City of Fort Wayne

November 8, 1971

BOARD OF PUBLIC WORKS

Fred S. Ehrman, Chairman
Robert W. Dallman
George F. Gable

The Common Council
Room 122
City-County Building
One Main Street
Fort Wayne, Indiana

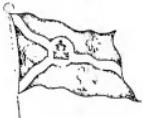
Subject: REPORT ON THE CAUSE OF LEAKAGE FROM THE HURSTOWN RESERVOIR
AND METHOD, COST AND SAFEGUARDS IN ITS REPAIR

Gentlemen and Mrs. Fay:

We respectfully request your consideration of this report on the above subject in your deliberations regarding the approval of the contract between the City of Fort Wayne, Indiana and John Dehner, Inc., for the rebuilding of a section of the embankment of the Hursttown Reservoir, the report being requested in your committee meeting before regular council session on Tuesday evening, October 12, 1971.

Hurstown Reservoir is one element of vital importance within the Water Utility on which we relied heavily as a hedge against future drought years to carry us beyond 1985. It is a pumped storage reservoir (that is, filled by pumping water from the St. Joseph River during high river flows and letting the water return to the river during low flow to insure adequate water for the City), and has a capacity of 1,885,000,000 gallons of raw water. This structure, believed to have been well engineered and well constructed, developed a leak under the embankment at the point of greatest depth, as observed by a farmer in the area on Sunday, April 11, 1971, and reported to the Water Engineering Department on April 12, 1971. This unfortunate incident required around-the-clock work on the part of operating forces, engineers and the contractor, to prevent breaching of the earthen embankment and a possible catastrophe down stream. The expanding leak was finally brought under control at 4:40 A. M., April 14th, and the reservoir continued to be emptied without any loss of lives or private property damage. But a severe financial burden was placed on the funds of the Water Utility for the controlling, investigating and repairs to this \$2,000,000 reservoir.

In the meanwhile, we are without the availability of the 1,500,000,000 gallons we already had stored, and the additional 385,000,000 gallons we would have pumped from the St. Joseph River to fill the storage to design capacity. Abnormal low river flow during the spring of 1972 and the increased rate of pumping by farmers for irrigation, could put our water supply in jeopardy if repair is not completed at an early date.



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We have gone ahead with further engineering and geologic studies to determine the cause and to reach a conclusion on how to make the needed repairs. The studies indicated the need for more explorative borings, which in turn, called for extensive excavations, rebuilding a large section of embankment, relaying of the slopes, and grading and seeding outside, for which we received bids on Thursday, October 7, 1971.

John Dehner, Inc. was the low bidder in the amount of \$135,266.47, with Yost Companies, Inc. of Decatur, Indiana, submitting a proposal of \$147,750.00 and Foundation and Bridge Company of Fort Wayne submitting one totalling \$202,700.00.

This impoundment was constructed in accordance with plans prepared by and under the supervision of our consulting engineers, McNamee, Porter and Seeley of Ann Arbor, Michigan. Their design was prepared after thirty-two (32) soil borings were taken around the proposed dike location, which borings indicated an adequate layer of clay was available to form the floor of the impoundment without leakage. Evidence shown by these borings did not indicate the necessity for additional borings to prove the adequacy of the clay cover. Also, the plans for the impoundment were approved, as required, by the Department of Natural Resources of the State of Indiana.

After the failure, representatives of the U. S. Corps of Engineers, Department of Natural Resources, the Consulting Engineers and the Utility, have investigated the cause of the failure along with the soils specialist, Mr. U. W. Stoll of Ann Arbor, Michigan. As a result, additional soil borings, totalling 150, have been made around the entire embankment of the reservoir to pin-point the cause and to determine conclusively if there is any potential failure in other parts of the impoundment.

The cause of the failure has been reduced to three factors which jointly contributed to it. Had any one of the factors not been in existence, the failure probably would not have occurred. These factors are as follows:

1. A narrow sand and gravel mound did exist at the southwest corner of the reservoir, which raised well above the surrounding sand and gravel under-layment and projected up into the clay overlay in the area.
2. An H-beam upright was driven into the clay to support the walkway from the dike to the outlet structure. In so doing, it was driven through the clay overlay and into the sand and gravel below, at a point where the sand and gravel arose to near its highest elevation.
3. The 42" outlet pipe was laid in this same area, from the outlet structure under the embankment and across the road. Excavation since the failure reveals there was a thin layer of clay between the bottom of the outlet pipe and the undetected sand and gravel mound below.

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As a result, when the reservoir was filled, water followed the H-beam down through the clay, passed through the sand and gravel underlay, found its way through the backfill around the outlet pipe outside the dike and boiled up in the grassy area beyond. Again, had one or more of the above factors not existed in the unique combination, the failure probably would not have occurred.

Our consulting engineers, with the assistance of soils specialist U. W. Stoll, and with the benefit of the additional 150 borings, have prepared plans for the repair of the reservoir which will eliminate the detrimental affects of all three of the above factors.

A wedge-shaped section of the southwest corner of the dike is to be cut completely out to a minimum depth of eight (8) feet below the 42" outlet pipe and its encasement. The cut will be replaced with compacted clay of adequate depth and in such a manner that it will preclude water seeping through it.

The 42" outlet pipe will be relaid in a concrete encasement, seven (7) feet wide and six (6) feet deep, with five (5) cut-off collars around the pipe, each twelve (12) inches thick and twelve (12) feet square and having a minimum of five (5) feet of compacted clay below the twelve (12) foot square collars. These collars are to prevent flow of water along the outside of the encased pipe.

Also, the H-beam supports for the walkway will be set on and bolted to reinforced concrete foundations, rather than driven into the clay.

A six (6) inch perforated tile will be laid in a crushed stone bedding along the top of the outlet pipe from a point approximately twenty-three (23) feet outside the center of the dike to an observation manhole near the bottom of the outside of the dike. If water should flow through the dike, it will be picked up by the perforated pipe and flow into the observation manhole and thus be detected.

In order to stop such a flow of water, four (4) PVC plastic pipes two (2") inches in diameter, will be encased in the concrete along with the 42" outlet pipe. These plastic pipes will extend from the observation manhole, two of them leading to a point approximately eighteen (18) feet inside the center of the dike and the other two to a point approximately fifty (50) feet from the outlet structure. These pipes are connected to a two (2) inch PVC plastic pipe collar around the encased outlet pipe, which collar is equipped with eight (8) outlet ports, each two (2) inches in diameter. If and when flow is detected from the six (6) inch perforated tile, concrete mortar will be pumped through the two (2) inch PVC plastic pipes, out through the ports in the plastic pipe collar, and will fill and solidify in any voids which may occur around the outlet pipe which permits the flow.

In addition, a clay blanket will be placed over the entire area where the dike section is removed. This will extend well beyond the removed section to insure no leakage through the dike where the old and new sections join.

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Soil borings taken since the leak occurred at this reservoir have been analyzed by soils specialist, U. W. Stoll, and it is concluded there are no other locations around the periphery of the embankment where there is any reason to believe that a similar failure could occur. Along with this, it should be noted that the failure occurred at the point along the periphery where the water level was greatest within the reservoir. Therefore, there is no other portion of the embankment which will be subjected to as great a water pressure as the section which failed.

As related above, the leakage from the reservoir was reported to the Utility Engineering Department on April 12, 1971 and brought under control on April 14, 1971. After dewatering the impoundment and drying time elapsed, representatives of the Utility, the Consulting Engineers, the U. S. Corps of Engineers, the Indiana Department of Natural Resources and the contractor met on May 6, 1971 at the site to investigate the possible cause.

A copy of a report made by Mr. William Otto of the Corps of Engineers was made available to the City on July 12, 1971, which sighted his findings along with his feelings regarding the probable cause and possible method to restore the impoundment to service. The cause, related in his report, paralleled very closely to that found to be true by further investigations and borings made after he had returned to his Detroit office. Also, his suggested methods of restoration have been considered and partially used in our consultant's plans.

On July 16, 1971, our Consulting Engineers and Mr. U. W. Stoll, soils specialist, made their report based on the May 6th investigation and upon borings made afterward in the immediate vicinity of the failure, Mr. Otto not having benefit of the additional data obtained by our consultant and Mr. Stoll. The report of July 16 was similar to that of Mr. Otto, but more precise regarding the actual cause. Also, it was more detailed with respect to the probable methods of restoration. As a result, the plans used in bidding for the restoration follow very closely this latter report with refinements of details not then fully determined.

Since the latter date, and after careful design work and discussions with the staff of the Department of Natural Resources, who must approve all plans of this nature, plans were prepared and bids were received on Thursday, October 7, 1971, for the necessary work in order to place this needed reservoir back into service.

All recommendations of the Department of Natural Resources have been incorporated in the plans and we expect the formal written approval of the Board and Commission at an early date. They have indicated we may proceed with removal of the section of embankment to be replaced.

Work was commenced on the investigation of the possibility of obtaining Federal funds for this project in mid-July. Until fairly recently, this effort looked fruitless. However, we have been informed, after preliminary application, that such funds (50 - 50 basis) are available. Final papers for this are expected to be in the hands of the Federal agency next week and approval is expected the latter part of November.

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Contrary to information available to us at the time of your Council meeting on Tuesday, October 12, 1971, the above funds will not be available if a contract is awarded prior to the approval of the fund grant. This was learned by Mr. William Gentner on Wednesday morning, October 13th, and passed on to Messrs. Paul G. Fulkerson and Donald L. Foland, after Mr. Gentner called the Chicago office for verification that morning.

Believing it appropriate to delay compliance with your October 12, 1971 request until more status information could be included, we submit the following:

1. Department of Housing and Urban Development has assigned No. WSF-IN-05-36-1002 to this project.
2. Department of Natural Resources Council did, on November 5, 1971, at Indianapolis, approve the DNR Engineering recommendations that the Plans and Specifications as submitted by McNamee, Porter and Seeley, be accepted. (A meeting before the DNR Commission is scheduled November 11th at 11:00 A. M. for final action - approval is anticipated.)
3. The Common Council of the City of Fort Wayne will be asked to approve a Resolution, authorizing the City to file our application for funding aid with HUD.

Subject to the granting by HUD of the above application, and based upon the above report, the detailed reports and plans sited above, which are on file in our office, we respectfully request the approval of the application for the rebuilding of the section of the embankment of the Hursttown Reservoir and all related work covered in the contract.

If such grant is not approved, it will be requested that the contract be approved and full payment be made from Water Utility funds.

Respectfully submitted,

BOARD OF PUBLIC WORKS

Floyd R. Beward

Robert W. Duncan

Donald R. Elmer

DLF:dm

cc: Each Council Member
Mayor Harold S. Zeis
Mr. H. A. Kerby
Mr. Paul G. Fulkerson

MADE A MATTER OF RECORD

DATE 11-9-71 FUAD G. BONAHOOM, CITY CLERK

The Council then adjourned.

CERTIFICATE

I hereby certify that I am the duly elected, acting and incumbent City Clerk of the City of Fort Wayne, Indiana and as such the custodian of the records of the Common Council of said city and that the above and foregoing is the true, full and complete record of the proceedings of the Common Council of the City of Fort Wayne, Indiana for its Regular Session, held on Tuesday, the 9th day of November, 1971; that the numbered ordinances and resolutions shown therein were duly adopted by said Common Council on said date and were presented by me to the Mayor of the City of Fort Wayne and were signed and approved or disapproved by said Mayor as and on the dates shown as to each such ordinance and resolution respectively; and that all such records, proceedings, ordinances and resolutions remain on file and record in my office.

WITNESS my hand and the official seal of the City of Fort Wayne, Indiana, this 18th day of November, 1971.

Fuad G. Bonahoom
City Clerk

SEAL